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1 Nonsequentiality and Concrete Activity Phases in Discrete-Event Simulation


Languages

J. A. Barnden

 July 1981 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 3 Issue 3

Publisher: ACM Press

Full text available: pdf(1.59 MB)

 Additional Information: [full citation](#), [references](#), [index terms](#)

2 Mos LSI computer aided design system



D. R. Lewallen

 January 1969 **Proceedings of the 6th annual conference on Design Automation**

Publisher: ACM Press

Full text available: pdf(1.03 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A design system employing computer aided design techniques, a Gerber digital photographic plotter, and an automatic LSI tester has been developed and used in logic design, layout design, mask generation, and testing, of complex MOS Large Scale Integrated circuit arrays. The system employs computer logic simulation for debugging machine logic and generating test tapes, and utilizes abbreviated input data techniques for generating array layout designs and photographic artwork masters. In this ...

3 The computation of optical flow



S. S. Beauchemin, J. L. Barron

 September 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(3.06 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Two-dimensional image motion is the projection of the three-dimensional motion of objects, relative to a visual sensor, onto its image plane. Sequences of time-ordered images allow the estimation of projected two-dimensional image motion as either instantaneous image velocities or discrete image displacements. These are usually called the optical flow field or the image velocity field. Provided that optical flow is a reliable approximation to two-dimensional ...

4 Listening to FM radio in software, step by step

Eric Blossom

September 2004 **Linux Journal**, Volume 2004 Issue 125

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(18.64 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Software radio is a really big important technology. Don't take our word for it—try this simple project.


5 An Approach to Program Behavior Modeling and Optimal Memory Control



Percy Tzelnic, Izidor Gertner

April 1982 **Journal of the ACM (JACM)**, Volume 29 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.37 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)


6 Trace-based mobile network emulation



Brian D. Noble, M. Satyanarayanan, Giau T. Nguyen, Randy H. Katz

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Subjecting a mobile computing system to wireless network conditions that are realistic yet reproducible is a challenging problem. In this paper, we describe a technique called *trace modulation* that re-creates the observed end-to-end characteristics of a real wireless network in a controlled and repeatable manner. Trace modulation is transparent to applications and accounts for all network traffic sent or received by the system under test. We present results that show that it is indeed cap ...



7 Social networks in the virtual science laboratory



George Chin, James Myers, David Hoyt

August 2002 **Communications of the ACM**, Volume 45 Issue 8

Publisher: ACM Press

Full text available:  [pdf\(281.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 [html\(27.16 KB\)](#)

Communicating scientists' behavior, as well as their ideas, computer-supported cooperative work technology fosters virtual social networks of far-flung collaborators pursuing mutual interests and experiments.

8 Simulation: the correct approach to complex availability problem]



Gene J. Schroeder, Marvin M. Johnson

December 1988 **Proceedings of the 20th conference on Winter simulation**

Publisher: ACM Press

Full text available:  [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, system owners and operators have increasingly emphasized the actual amount of time equipment is capable of performing its intended function. For military systems, added complexity, longer service life requirements, reduced periodic maintenance, and less frequent checkouts have increased system availability requirements. However, these factors compound the difficulty in estimating the system's true availability. With dormant

or semi-dormant systems, the amount ...

9 Using APL to build science tutors for the high school level



Manuel Alfonseca

July 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on Array processing language APL '98**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: [pdf\(681.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the procedure used to build several courses on the sciences for the high school level. An APL2 program has been written that accepts problem models, including explanation models, and uses them to generate many different problems. Each course is provided with about one hundred problem models, from which the student is invited to solve many thousands of different actual problems. The unique features of APL2 have made it very simple to develop the program that supports the cour ...

10 Multi-time simulation of voltage-controlled oscillators



Onuttom Narayan, Jaijeet Roychowdhury

June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation**

Publisher: ACM Press

Full text available: [pdf\(1.71 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 System development methodology using LOGOS



David B. Allen, Mark R. Dempsey, Leslie H. Goldsmith

January 1987 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL in transition APL '87**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The development of applications written in APL has traditionally both benefited by and suffered from the freedom offered by the environment. A consequence of this freedom is that few applications are designed from the perspectives of consistency, modularity, and structure. This paper describes how LOGOS, a programming environment for APL, helps improve the development and maintenance of APL applications. Through the use of basic support facilities and integrated tools, LOGOS encourages a mo ...

12 Evaluation of an adaptive traffic control technique with underlying system changes



Richard H. Smith, Daniel C. Chin

December 1995 **Proceedings of the 27th conference on Winter simulation**

Publisher: ACM Press

Full text available: [pdf\(701.30 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

13 Versatile and efficient techniques for simulating cloth and other deformable objects



Pascal Volino, Martin Courchesne, Nadia Magnenat Thalmann

September 1995 **Proceedings of the 22nd annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press

Full text available: [pdf\(225.32 KB\)](#) [ps\(83.90 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: animation, collision detection, collision response, deformable surfaces, mechanical simulation

14 Support for specifying temporal behavior in Ada designs



R. J. A. Buhr, G. M. Karam, R. Casselman

April 1991 **ACM SIGAda Ada Letters , Proceedings of the first international symposium on Environments and tools for Ada SETA1**, Volume XI Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

MachineCharts is a visual design notation that has both structural and temporal semantics. An *Abstract Controller Machine* (ACM) is an element of the notation that encapsulates the temporal behavior defined by a requirements entity and expresses it through an *event/action* interface. This interface is used by the design components to implement the communications semantics between entities that were present in the requirements model. To support the ACM concept as part of design ...

15 Image-based spatio-temporal modeling and view interpolation of dynamic events



Sundar Vedula, Simon Baker, Takeo Kanade

April 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: [pdf\(22.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an approach for modeling and rendering a dynamic, real-world event from an arbitrary viewpoint, and at any time, using images captured from multiple video cameras. The event is modeled as a nonrigidly varying dynamic scene, captured by many images from different viewpoints, at discrete times. First, the spatio-temporal geometric properties (shape and instantaneous motion) are computed. The view synthesis problem is then solved using a reverse mapping algorithm, ray-casting across spac ...

Keywords: Image-based modeling and rendering, dynamic scenes, non-rigid motion, scene flow, space carving, spatio-temporal view interpolation, voxel models

16 Natural phenomena: Visual simulation of ice crystal growth



Theodore Kim, Ming C. Lin

July 2003 **Proceedings of the 2003 ACM SIGGRAPH/Eurographics symposium on Computer animation SCA '03**

Publisher: Eurographics Association

Full text available: [pdf\(8.85 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The beautiful, branching structure of ice is one of the most striking visual phenomena of the winter landscape. Yet there is little study about modeling this effect in computer graphics. In this paper, we present a novel approach for visual simulation of ice growth. We use a numerical simulation technique from computational physics, the "phase field method," and modify it to allow aesthetic manipulation of ice crystal growth. We present acceleration techniques to achieve interactive simulation p ...

17 Noise Analysis for Optical Fiber Communication Systems



Alper Demir

November 2003 **Proceedings of the 2003 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Computer Society

Full text available: [pdf\(311.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The optical fiber transmission links form the backbone of the communications infrastructure. Almost all of voice and data (internet) traffic is routed through terrestrial and submarine optical fiber links, connecting the world together. Invention of the optical amplifiers (OAs) and wavelength-division multiplexing (WDM) technology enabled very high capacity optical fiber communication links that run for thousands of kilometers without any electronic repeaters, but at the same time brought many design ...

18 A distribution-free random number generator via a matrix-exponential representation



Edward F. Brown

March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**

Publisher: ACM Press

Full text available: [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

19 Synchronization: Firefly-inspired sensor network synchronicity with realistic radio effects



Geoffrey Werner-Allen, Geetika Tewari, Ankit Patel, Matt Welsh, Radhika Nagpal

November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**

Publisher: ACM Press

Full text available: [pdf\(564.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Synchronicity is a useful abstraction in many sensor network applications. Communication scheduling, coordinated duty cycling, and time synchronization can make use of a synchronicity primitive that achieves a tight alignment of individual nodes' firing phases. In this paper we present the *Reachback Firefly Algorithm (RFA)*, a decentralized synchronicity algorithm implemented on TinyOS-based motes. Our algorithm is based on a mathematical model that describes how fireflies and neurons spon ...

Keywords: biologically inspired algorithms, pulse-coupled oscillators, synchronization, wireless sensor networks

20 Parallel program performance prediction using deterministic task graph analysis



Vikram S. Adve, Mary K. Vernon

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: [pdf\(576.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

In this article, we consider analytical techniques for predicting detailed performance characteristics of a single shared memory parallel program for a particular input. Analytical models for parallel programs have been successful at providing simple qualitative insights and bounds on program scalability, but have been less successful in practice for providing detailed insights and metrics for program performance (leaving these to measurement or simulation). We develop a conceptually simple mode ...

Keywords: Analytical model, deterministic model, parallel program performance prediction, queueing network, shared memory, task graph, task scheduling

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IEEE JNL IEEE Journal or Magazine

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Volume 48, Issue 3, March 2000 Page(s):430 - 441
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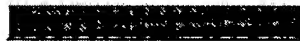
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Radar, Sonar and Navigation, IEE Proceedings -
Volume 145, Issue 6, Dec. 1998 Page(s):367 - 373
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Rotman, R.; Rotman, S.; Rotman, W.; Raz, O.; Tur, M.;
Antennas and Propagation Society International Symposium, 2005 IEEE
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Radio and Wireless Conference, 2004 IEEE
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